. Appl. No. 09/761,700 Amdt. Dated: August 20, 2004

Reply to Office Action of: February 24, 2004

Amendments to the Drawings

Please replace the drawings previously on file with new drawings submitted herewith.

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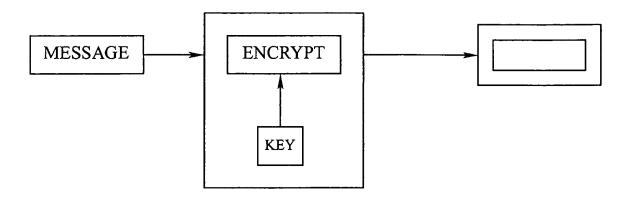


Fig. 1



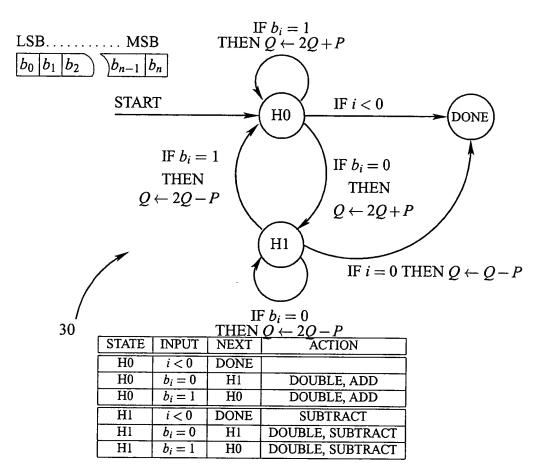


Fig. 3



BEGIN:		
i := N	; START FROM MSB	Ll
Q := 0	; INITIALIZE ACCUMULATOR	L2
$\widetilde{H} := 0$; INTIALIZE STATE	L3
LOOP:	; FOR ALL BITS	
Q := Q + Q	; DOUBLE ACCUMULATOR	L4
IF $H=0$; IF H STATE IS SET	L5
Q := Q + P	; ADD BASE POINT TO ACCUMULATOR	L6
GOTO ENDLOOP	;	L7
ELSE	; ELSE	
Q := Q - P	; SUBTRACT BASE POINT	L8
GOTO ENDLOOP	;	L9
ENDLOOP:		
$H := \overline{b[i]}$; SET H STATE TO COMPLEMENT OF $b[i]$	L10
i := i - 1	; PROCESS NEXT BIT	Lll
IF $i \geq 0$; IF BIT EXISTS	L12
GOTO LOOP	; CONTINUE AT TOP OF LOOP	L13
IF $H = 0$; IF EXITING FROM $H = 0$ STATE	L14
Q := Q + (-P)	; CORRECT RESULT BY FINAL SUBTRACT	L15
END		L16

Fig. 4

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BEGIN:		
i := N	; START FROM MSB	LL1
Q := 0	; INITIALIZE ACCUMULATOR	LL2
Н0:	; STATE ENTRY POINT	
Q := Q + Q	; DOUBLE ACCUMULATOR	LL3
Q := Q + P	; ADD BASE POINT TO ACCUMULATOR	LL4
GOTO ENDLOOP		LL5
H1:	; STATE ENTRY POINT	
Q := Q + Q	; DOUBLE ACCUMULATOR	LL6
Q := Q + (-P)		LL7
GOTO ENDLOOP		LL8
ENDLOOP:	; END OF LOOP TESTS	
IF $b[i] = 1$; IF CURRENT BIT IS SET	LL9
GOTO NEXT HO	; FOLLOW H0 PATH	LL10
	; ELSE FALL INTO H1 PATH	
NEXT H1:	; H1 PATH	
i := i - 1	; PROCESS NEXT BIT	LL11
IF $i > 0$; IF BIT EXISTS	LL12
GOTO H1	; EXECUTE HI STATE	LL13
Q := Q + (-P)	; ELSE CORRECT RESULT AND END	LL14
END		LL15
NEXT H0:	; H0 PATH	
i := i - 1	; PROCESS NEXT BIT	LL16
IF $i > 0$; IF BIT EXISTS	LL17
GOTO H0	; EXECUTE HO STATE	LL18
END	: ELSE END	LL15

Fig. 5



```
BEGIN:
    i := N
    Q := 1
H0:
    Q:=Q\cdot Q\left(Q^{2}\right)
    Q := Q \cdot M
    GOTO ENDLOOP
H1:
    Q := Q \cdot Q
    Q := Q/M (Q \cdot M^{-1})
ENDLOOP:
    IF b[i] = 1 GOTO ENDLOOP
NEXT HI:
    i := i - 1
    IF i > 0
     GOTO H1
    Q := Q/M
    END
NEXT H0:
   i := i-1
   IF i > 0
     GOTO H0
   END
        Fig. 6
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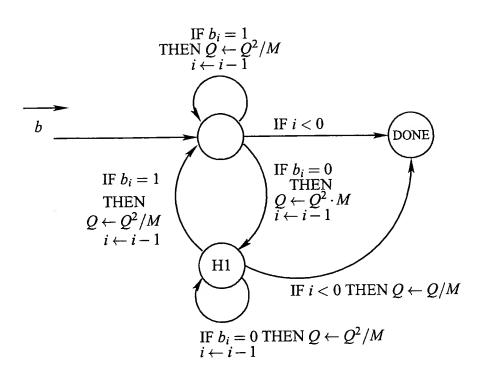


Fig. 7

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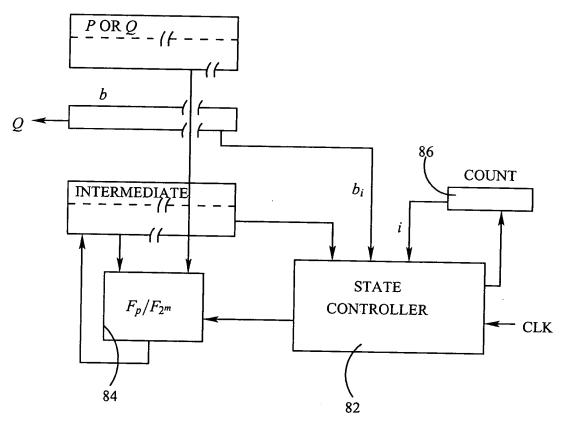


Fig. 8